

R. Li

RUSH



# ENTERED

See page 6

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## RAW SEQUENCE LISTING

DATE: 06/06/2002

PATENT APPLICATION: US/09/727,739B

TIME: 15:01:04

Input Set : A:\020523.seq.list.txt

Output Set: N:\CRF3\06062002\I727739B.raw

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5 <110> APPLICANT: Sheridan, Mark
7      Kittilson, Jeffrey
9      Moore, Craig
13 <120> TITLE OF INVENTION: Somatostatins and Methods
17 <130> FILE REFERENCE: 255.00040101
21 <140> CURRENT APPLICATION NUMBER: US 09/727,739B
23 <141> CURRENT FILING DATE: 2000-12-01
27 <150> PRIOR APPLICATION NUMBER: US 60/168,934
29 <151> PRIOR FILING DATE: 1999-12-03
33 <160> NUMBER OF SEQ ID NOS: 52
37 <170> SOFTWARE: PatentIn version 3.0
41 <210> SEQ ID NO: 1
43 <211> LENGTH: 14
45 <212> TYPE: PRT
47 <213> ORGANISM: Homo sapiens
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56 <210> SEQ ID NO: 2
58 <211> LENGTH: 14
60 <212> TYPE: PRT
62 <213> ORGANISM: Oncorhynchus mykiss
66 <400> SEQUENCE: 2
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69 1          5          10
71 <210> SEQ ID NO: 3
73 <211> LENGTH: 114
75 <212> TYPE: PRT
77 <213> ORGANISM: Oncorhynchus mykiss
81 <400> SEQUENCE: 3
83 Met Leu Ser Thr Arg Val Gln Cys Ala Leu Ala Leu Leu Ser Leu Ala
84 1          5          10          15
86 Leu Ala Ile Ser Ser Val Ser Ala Ala Pro Ser Asp Ala Lys Leu Arg
87          20          25          30
89 Gln Leu Leu Gln Arg Ser Leu Met Ala Pro Ala Gly Lys Gln Glu Leu
90          35          40          45
92 Ala Arg Asn Thr Leu Val Glu Leu Leu Ser Glu Leu Ala His Val Glu
93          50          55          60
95 Asn Glu Ala Ile Glu Leu Asp Asp Met Ser His Gly Val Glu Gln Glu
96 65          70          75          80
98 Asp Val Asp Leu Glu Leu Glu Arg Ala Pro Gly Pro Val Leu Ala Pro
99          85          90          95
101 Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr

```

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102          100          105          110
104 Ser Cys
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109 <211> LENGTH: 26
111 <212> TYPE: PRT
113 <213> ORGANISM: Oncorhynchus mykiss
117 <400> SEQUENCE: 4
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120 1          5          10          15
122 Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
123          20          25
125 <210> SEQ ID NO: 5
127 <211> LENGTH: 88
129 <212> TYPE: PRT
131 <213> ORGANISM: Oncorhynchus mykiss
135 <400> SEQUENCE: 5
137 Met Leu Ser Thr Arg Val Gln Cys Ala Leu Ala Leu Leu Ser Leu Ala
138 1          5          10          15
140 Leu Ala Ile Ser Ser Val Ser Ala Ala Pro Ser Asp Ala Lys Leu Arg
141          20          25          30
143 Gln Leu Leu Gln Arg Ser Leu Met Ala Pro Ala Gly Lys Gln Glu Leu
144          35          40          45
146 Ala Arg Asn Thr Leu Val Glu Leu Leu Ser Glu Leu Ala His Val Glu
147          50          55          60
149 Asn Glu Ala Ile Glu Leu Asp Asp Met Ser His Gly Val Glu Gln Glu
150 65          70          75          80
152 Asp Val Asp Leu Glu Leu Glu Arg
153          85
155 <210> SEQ ID NO: 6
157 <211> LENGTH: 12
159 <212> TYPE: PRT
161 <213> ORGANISM: Oncorhynchus mykiss
165 <400> SEQUENCE: 6
167 Ala Pro Gly Pro Val Leu Ala Pro Arg Glu Arg Lys
168 1          5          10
170 <210> SEQ ID NO: 7
172 <211> LENGTH: 24
174 <212> TYPE: PRT
176 <213> ORGANISM: Oncorhynchus mykiss
180 <400> SEQUENCE: 7
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183 1          5          10          15
185 Leu Ala Ile Ser Ser Val Ser Ala
186          20
188 <210> SEQ ID NO: 8
190 <211> LENGTH: 763
192 <212> TYPE: DNA
194 <213> ORGANISM: Oncorhynchus mykiss
198 <400> SEQUENCE: 8

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199 gggggggggg gaacaggagc agcagaactc aaagagaagc caatctcaac gattgtctgc      60
201 ccaattgaac cacctttatc catectctgc ctcccccgag acccagaaga agatgctctc      120
203 gacgcgtgtc cagtgcgccc tagcactact ctccctagcc ctggccatca gcagcgtctc      180
205 tgccgctccg tccgatgcca aactccgcca gctgctccaa cggtcactca tggcacctgc      240
207 aggcaaacag gagcttgcca ggaatacact cgtagagcta ctctcagagc tcgcacatgt      300
209 agagaacgag gcgattgaat tggatgacat gtctcatggc gtggagcagg aggatgtgga      360
211 tctcgagctg gagcgtgcac ccggcccagt actggctcca cgtgaacgca aggctggatg      420
213 caagaacttc ttctggaaga cctttacatc gtgttaatga atctactcct ttactgtgtg      480
215 tactacatct catctctttt gtttcaatca ctcatgtctg aatccaatgc accatggcct      540
217 aaccctcctc ttcaaaaaat ttaaataaac actgttataa ctttaacaat cattctgatg      600
219 tttctatcgc tcaacttagat ttttttccga aaaggaacac aagaaagaat gttctacaaa      660
221 tgtatgcggt tctgctttga ctgtgattta tgtattttgg cagactatct ttaattgttt      720
223 gtttgaataa aatctgtgtt tcagaaccaa aaaaaaaaaa aaa                          763

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226 &lt;210&gt; SEQ ID NO: 9

228 &lt;211&gt; LENGTH: 115

230 &lt;212&gt; TYPE: PRT

232 &lt;213&gt; ORGANISM: Oncorhynchus mykiss

236 &lt;400&gt; SEQUENCE: 9

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238 Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala
239 1          5          10          15

```

```

241 Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu
242          20          25          30

```

```

244 Arg Ser Arg Arg Leu Leu Gln Arg Ala Arg Ala Ala Ala Leu Pro His
245          35          40          45

```

```

247 Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
248          50          55          60

```

```

250 Cys Leu Arg Pro Arg Lys Val Lys Cys Pro Ala Gly Ala Lys Glu Asp
251 65          70          75          80

```

```

253 Leu Arg Val Glu Leu Glu Arg Ser Val Gly Asn Pro Asn Asn Leu Pro
254          85          90          95

```

```

256 Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe
257          100         105         110

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259 Thr Ser Cys

260 115

262 &lt;210&gt; SEQ ID NO: 10

264 &lt;211&gt; LENGTH: 28

266 &lt;212&gt; TYPE: PRT

268 &lt;213&gt; ORGANISM: Oncorhynchus mykiss

272 &lt;400&gt; SEQUENCE: 10

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274 Ser Val Gly Asn Pro Asn Asn Leu Pro Pro Arg Glu Arg Lys Ala Gly
275 1          5          10          15

```

```

277 Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys
278          20          25

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280 &lt;210&gt; SEQ ID NO: 11

282 &lt;211&gt; LENGTH: 87

284 &lt;212&gt; TYPE: PRT

286 &lt;213&gt; ORGANISM: Oncorhynchus mykiss

290 &lt;400&gt; SEQUENCE: 11

292 Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/727,739B

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TIME: 15:01:04

Input Set : A:\020523.seq.list.txt

Output Set: N:\CRF3\06062002\I727739B.raw

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293 1          5          10          15
295 Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu
296          20          25          30
298 Arg Ser Arg Arg Leu Leu Gln Arg Ala Arg Ala Ala Ala Leu Pro His
299          35          40          45
301 Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
302          50          55          60
304 Cys Leu Arg Pro Arg Lys Val Lys Cys Pro Ala Gly Ala Lys Glu Asp
305 65          70          75          80
307 Leu Arg Val Glu Leu Glu Arg
308          85
310 <210> SEQ ID NO: 12
312 <211> LENGTH: 14
314 <212> TYPE: PRT
316 <213> ORGANISM: Oncorhynchus mykiss
320 <400> SEQUENCE: 12
322 Ser Val Gly Asn Pro Asn Asn Leu Pro Pro Arg Glu Arg Lys
323 1          5          10
325 <210> SEQ ID NO: 13
327 <211> LENGTH: 25
329 <212> TYPE: PRT
331 <213> ORGANISM: Oncorhynchus mykiss
335 <400> SEQUENCE: 13
337 Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala
338 1          5          10          15
340 Leu Ala Ile Cys Ser Gln Gly Ala Ala
341          20          25
343 <210> SEQ ID NO: 14
345 <211> LENGTH: 623
347 <212> TYPE: DNA
349 <213> ORGANISM: Oncorhynchus mykiss
353 <400> SEQUENCE: 14
354 accaggcctg ctccataccg actgatccag atcgagcata gcccggtcca gctcagctcg      60
356 tctcaccgcg tgccatccct gcaaacaaaa cccagctctg ttggagatga aggtctgccg      120
358 aatccactgt gccctggccc tgctgggttt ggccctggcc atttgcagcc aaggagccgc      180
360 ctgcgagccc gacctggacc tccgcagccg cagactcctt cagagggctc gtgccgctgc      240
362 attgccacac aggagtggag taagcgagcg gtggaggaca ttctatccca actgtccttg      300
364 cctgaggccc aggaaagtga agtgtcaagc gggggctaaa gaggacctgc gtgtggagct      360
366 ggagcgctca gtgggcaacc ccaacaacct tcccccccggt gagcgcaaag ccggctgcaa      420
368 gaacttctac tggaagggtc tcaattcctg ctgagggaag aataaaccga ccaccttatg      480
370 acatgacgct gccaatcacg tcacaccgcc aacttacacc tgacgaatgc agccaatcaa      540
372 cagttagctg tgcccgatga tggttcttga aatcaacaga atgatgtacc tgtctaattt      600
374 gtgaaataaa tataaataaa ttg      623
377 <210> SEQ ID NO: 15
379 <211> LENGTH: 111
381 <212> TYPE: PRT
383 <213> ORGANISM: Oncorhynchus mykiss
387 <400> SEQUENCE: 15
389 Met Arg Val Ser Gln Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala

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## RAW SEQUENCE LISTING

DATE: 06/06/2002

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TIME: 15:01:04

Input Set : A:\020523.seq.list.txt

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```

390 1          5          10          15
392 Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu
393          20          25          30
395 Ala Ser Arg Arg Leu Leu Gln Arg Ala Leu Ala Ala Ala Leu Pro His
396          35          40          45
398 Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
399          50          55          60
401 Cys Leu Arg Trp Arg Pro Arg Lys Val Lys Gly Pro Gln Leu Lys Ala
402 65          70          75          80
404 Lys Glu Asp Leu Glu Arg Ser Val Asp Asn Leu Pro Pro Arg Glu Arg
405          85          90          95
407 Lys Ala Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys
408          100          105          110
410 <210> SEQ ID NO: 16
412 <211> LENGTH: 25
414 <212> TYPE: PRT
416 <213> ORGANISM: Oncorhynchus mykiss
420 <400> SEQUENCE: 16
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423 1          5          10          15
425 Phe Tyr Trp Lys Gly Phe Thr Ser Cys
426          20          25
428 <210> SEQ ID NO: 17
430 <211> LENGTH: 86
432 <212> TYPE: PRT
434 <213> ORGANISM: Oncorhynchus mykiss
438 <400> SEQUENCE: 17
440 Met Arg Val Ser Gln Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala
441 1          5          10          15
443 Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu
444          20          25          30
446 Ala Ser Arg Arg Leu Leu Gln Arg Ala Leu Ala Ala Ala Leu Pro His
447          35          40          45
449 Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
450          50          55          60
452 Cys Leu Arg Trp Arg Pro Arg Lys Val Lys Gly Pro Gln Leu Lys Ala
453 65          70          75          80
455 Lys Glu Asp Leu Glu Arg
456          85
458 <210> SEQ ID NO: 18
460 <211> LENGTH: 11
462 <212> TYPE: PRT
464 <213> ORGANISM: Oncorhynchus mykiss
468 <400> SEQUENCE: 18
470 Ser Val Asp Asn Leu Pro Pro Arg Glu Arg Lys
471 1          5          10
473 <210> SEQ ID NO: 19
475 <211> LENGTH: 25
477 <212> TYPE: PRT

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 06/06/2002  
PATENT APPLICATION: US/09/727,739B      TIME: 15:01:05

Input Set : A:\020523.seq.list.txt  
Output Set: N:\CRF3\06062002\I727739B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:24; N Pos. 36,37,41,42,46,47

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:22,23,24,25,26,33,34,50,51,52

## VERIFICATION SUMMARY

DATE: 06/06/2002

PATENT APPLICATION: US/09/727,739B

TIME: 15:01:05

Input Set : A:\020523.seq.list.txt

Output Set: N:\CRF3\06062002\I727739B.raw

L:547 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22  
L:565 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23  
L:583 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24  
L:622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:631 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25  
L:649 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26  
L:772 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33  
L:790 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34  
L:805 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (35) SEQUENCE:  
L:1308 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:50  
L:1326 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:51  
L:1344 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:52